



Organic Structural Spectroscopy (2nd Edition)

By Joseph B. Lambert, Scott Gronert, Herbert F. Shurvell, David Lightner, Robert Graham Cooks

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Ideal for any practicing or future organic chemist or biochemist, *Organic Structural Spectroscopy* presents the fundamentals of all four principal spectroscopic methods: nuclear magnetic resonance spectroscopy, mass spectrometry, infrared spectroscopy, and ultraviolet-visible spectroscopy. Each topic is examined in depth by an experienced author who is a practicing expert in that area. The material begins at the most elementary level and progresses to the level required for organic research. Among many other enhancements, the **Second Edition** offers an entirely new discussion of mass spectrometry, with comprehensive coverage of new ionization and fragmentation methods, and treatment of NMR from the basics to advanced 2D methods.

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Editorial Review

From the Publisher

This text authoritatively covers currently used techniques for determining the structure of organic and biological compounds--ideal for any practicing or future organic or biochemist. The fundamentals of all four principal spectroscopic methods are covered in depth, each by an experienced author who is a practicing expert in that area. The material is easy to grasp, beginning at the most elementary level and progressing to the level required for organic research. Highlights include the most thorough and current treatment of NMR available, ample problem material, and two new chapters devoted to multiple pulse and two-dimensional methods.

From the Back Cover

This book is the revision of a widely-respected book on spectroscopy. The book covers all four areas of organic spectroscopy including NMR, MS, electronic (including CD and optical rotary dispersion), and vibrational (which also includes Raman). The book is the most complete and comprehensive treatment on the subject. It covers currently used techniques for determining the structure of organic and biological compounds. It also has a strong emphasis on problem solving and is distinctly pedagogical. This book is ideal for any practicing or future organic or biochemist.

About the Author

Joseph B. Lambert has been Clare Hamilton Hall Professor of Chemistry at Northwestern University, Evanston, Illinois, and soon will become Professor of Chemistry at Trinity University, San Antonio, Texas. He has been recognized for his work in nuclear magnetic resonance spectroscopy, organosilicon chemistry, and archaeological chemistry, and for his teaching of chemistry. His honors include the American Chemical Society 2004 Sidney M. Edelstein Award for Outstanding Achievements in the History of Chemistry, the American Chemical Society 1998 Frederic Stanley Kipping Award in Silicon Chemistry, and the Chemical Manufacturers Association 1993 National Catalyst Award. He is the author of over 360 publications, including 13 books, and he is the editor-in-chief of the Journal of Physical Organic Chemistry.

Scott Gronert is Professor of Chemistry at Virginia Commonwealth University. He has been recognized for his research in mass spectrometry, proteomics, and gas-phase ion chemistry, and for his teaching of chemistry. His honors include a Northern California Phi Beta Kappa Teaching Excellence Award and a Wilsmore Fellowship at the University of Melbourne. He is author of over 100 publications, several book chapters, and presently is on the editorial board of the Journal of the American Society for Mass Spectrometry.

Herbert F. Shurvell is Emeritus Professor of Chemistry and Adjunct Professor in the Art Conservation Program at Queen's University in Kingston, Ontario. He has been recognized for research in infrared and Raman spectroscopy and for his teaching of chemistry. His honors include a D.Sc. degree from Exeter University, Honorary Membership in the Spectroscopy Society of Canada, and an Award for Excellence in Teaching from the Arts and Science Undergraduate Society of Queen's University. He is author of more than 200 publications, including four books, and he is a former Editor of Canadian Spectroscopic News.

David A. Lightner is R.C. Fuson Professor of Chemistry, Adjunct Professor of Biochemistry, and Regents Research Professor at the University of Nevada, Reno. He has been recognized for distinguished contributions in relating chiroptical properties to stereochemistry and for clarifying the molecular

mechanisms of phototherapy for neonatal jaundice. His honors include University of Nevada Foundation Professor (1987), the first recipient of the Outstanding Research Award for the State of Nevada (1992), and election as Fellow of the American Association for the Advancement of Science (1996). He is the author of more than 350 research publications and 12 books or book chapters, a former associate editor of Photochemistry and Photobiology, and currently on the editorial advisory board of Monatshefte für Chemie.

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